PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2000-276941

(43)Date of publication of application: 06.10.2000

(21)Application number: 11-081380

(71)Applicant:

CATALYSTS & CHEM IND CO LTD

ASAHI GLASS CO LTD

(22)Date of filing:

25.03.1999

(72)Inventor:

KOYANAGI TSUGUO

KOMATSU MICHIO HIRAI TOSHIHARU ABE KEISUKE

SANADA YASUHIRO

(54) COATING LIQUID FOR FORMING TRANSPARENT CONDUCTIVE FILM, SUBSTRATE WITH TRANSPARENT CONDUCTIVE FILM AND DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a transparent conductive film having surface resistance in a specific range and excellent in electromagnetic shielding effect, ultraviolet ray resistance and chemical resistance by containing ruthenium compound conductive fine grains containing ruthenium, boron and/or phosphorus in a coating liquid. SOLUTION: Ruthenium compound conductive fine grains preferably contain ruthenium, boron and/or phosphorus as monomolecular grains, and the average grain size is set to the range of 1–200 nm, desirably 2–70 nm. The ruthenium in the ruthenium compound conductive fine grains is a ruthenium metal, and a ruthenium oxide and/or a ruthenium hydroxide is contained. The ruthenium compound contains one or more kinds of metals selected from a group of Au, Ag, Pt, Pd, Rh, Cu, Co, Sn, In and Ta and/or oxides of metals, thereby a substrate with a transparent conductive film having the surface resistance of $102-104 \Omega$ /(square) is obtained.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japanese Patent Office